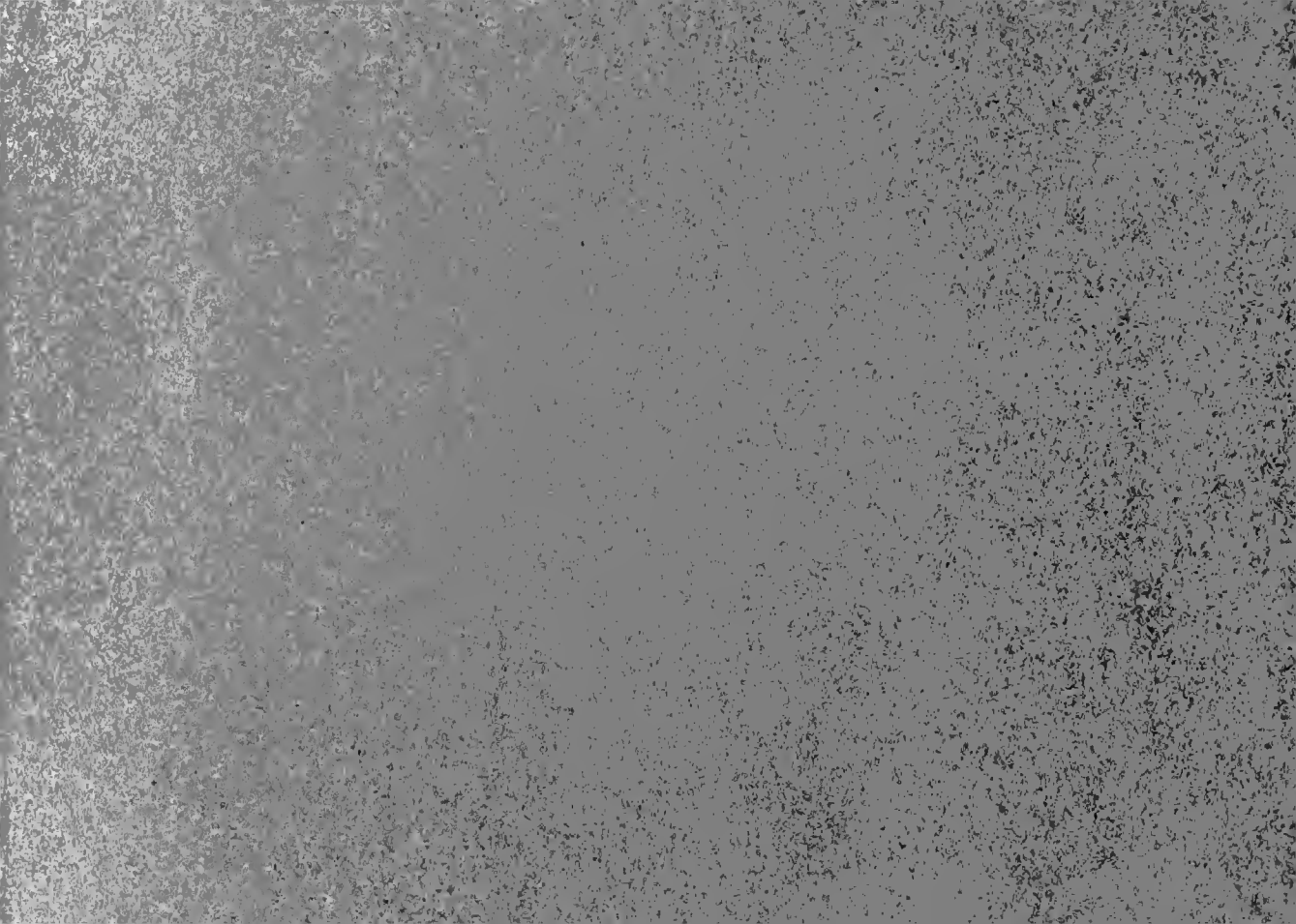


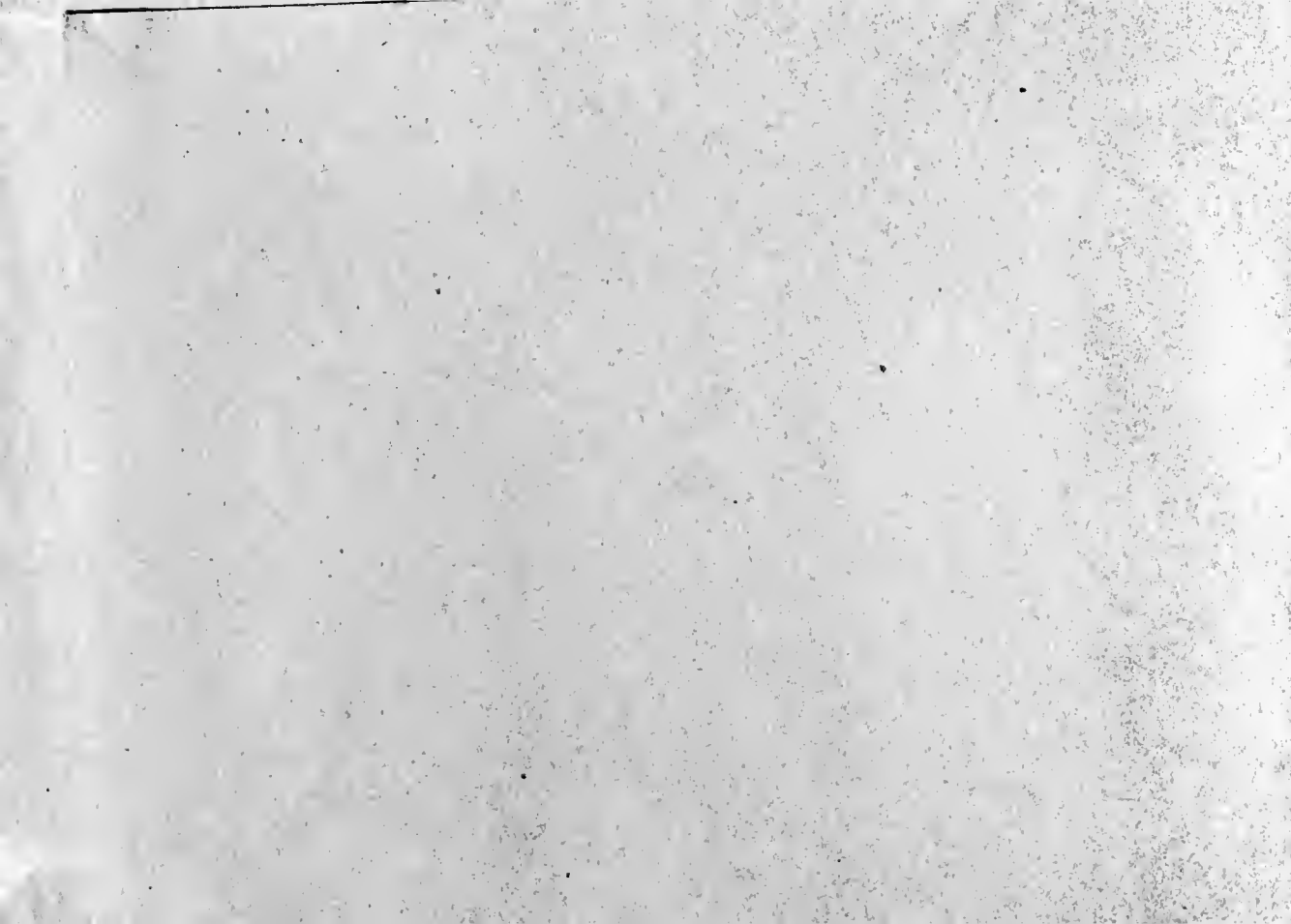
UC-NRLF



\$B 33 359







A
SYSTEM
OF
EASY LETTERING.

BY
J. HOWARD CROMWELL, PH.B.,

Fourth Thousand.



SPON & CHAMBERLAIN, 12 CORTLANDT STREET, NEW YORK.

1897.

73
C

COPYRIGHT, 1887,

BY

WM. CHAMBERLAIN.

NEW YORK
PUBLISHED BY
J. B. LIPPINCOTT & CO.

P R E F A C E .

The formality of a preface may seem scarcely necessary for the supplementing of a system as simple and comprehensible as the one herewith presented.

We have but to divide any surface we may wish to letter into squares (or parallelograms as the case may be), in pencil lines; form the required letters, in ink or paint, and according to the style chosen; erase the pencil lines, and the lettering is complete.

J. H. C.

A B C D E F G H I J K L M
N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z æ œ fl ff : .



A B C D E F G H I J K L M
N O P Q R S T U V W X Y
Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z œ œ ð ð ð .

A B C D E F G H I J K
L M N O P Q R S W
T U V X Y Z
a b c d e f g h i j k l m n o p
q r s t u v w x y z æ f Æ .

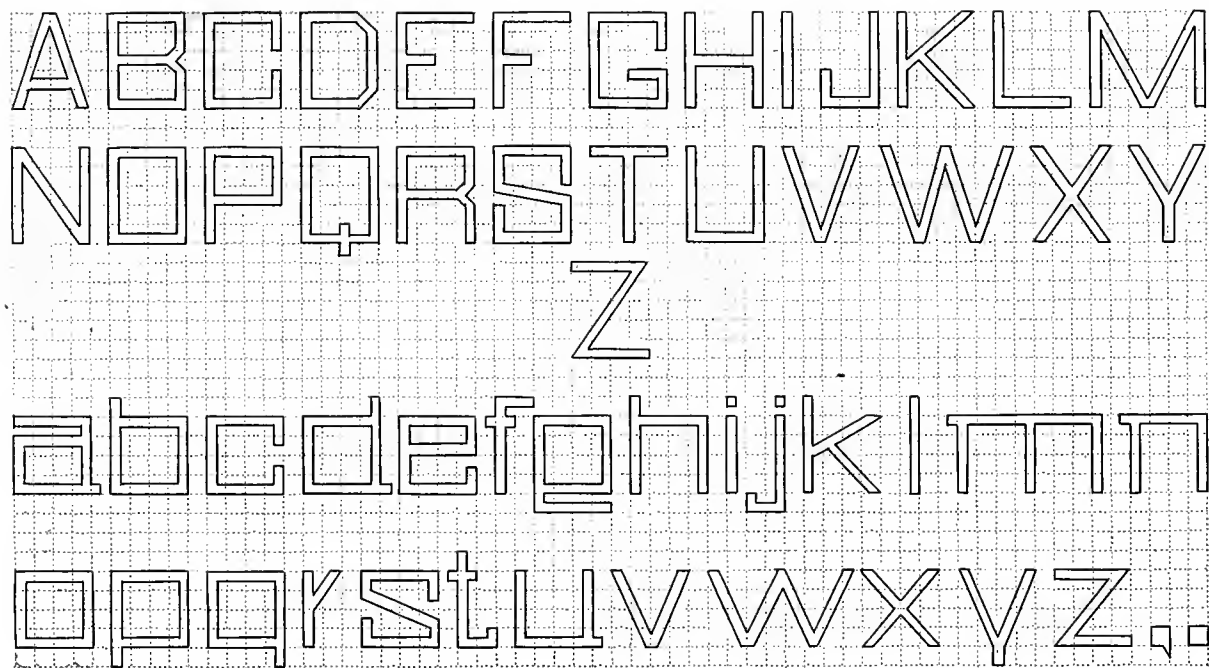
A B C D E F G H I J K L M N O P

Q R S T U V W X Y Z Æ £ \$.

a b c d e f g h i j k l m n o p q r s t u v

w x y z

1 2 3 4 5 6 7 8 9 0

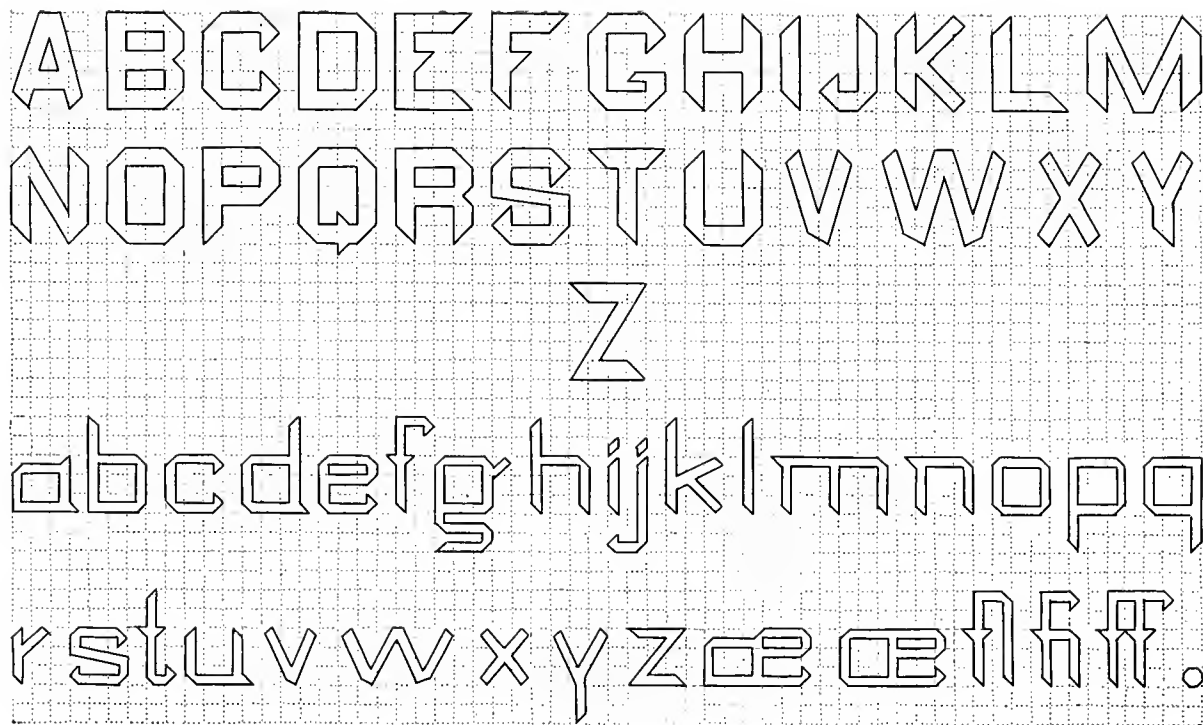


A B C D E F G H I J K L
M N O P Q R S T U V
W X Y Z
a b c d e f g h i j k l m n o
p q r s t u v w x y z æ ; .

A B C D E F G H I J K L N
M O P Q R S T U V W X
Y Z
a b c d e f g h i j k l m n o p
q r s t u v w x y z æ œ ÷



A B C D E F G H I J K L M
N O P Q R S T U V W X Y
Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z æ œ ð ƒ ƒ



A B C D E F G H I J K L

M N O P Q R S T U V Z

W X Y

a b c d e f g h i j k l m

n o p q r s t u v w x z

A B C D E F G H I J K L

M N O P Q R S T U V Z

W X Y

a b c d e f g h i j k l m n o p

q r s t u v w x y z æ œ ,

A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z æ œ ñ ñ.

A B C D E F G H I J K L M

N O P Q R S T U V W X Y

Z

a b c d e f g h i j k l m n o p q

r s t u v w x y z œ ƒ Ȧ Ȧ Ȧ .

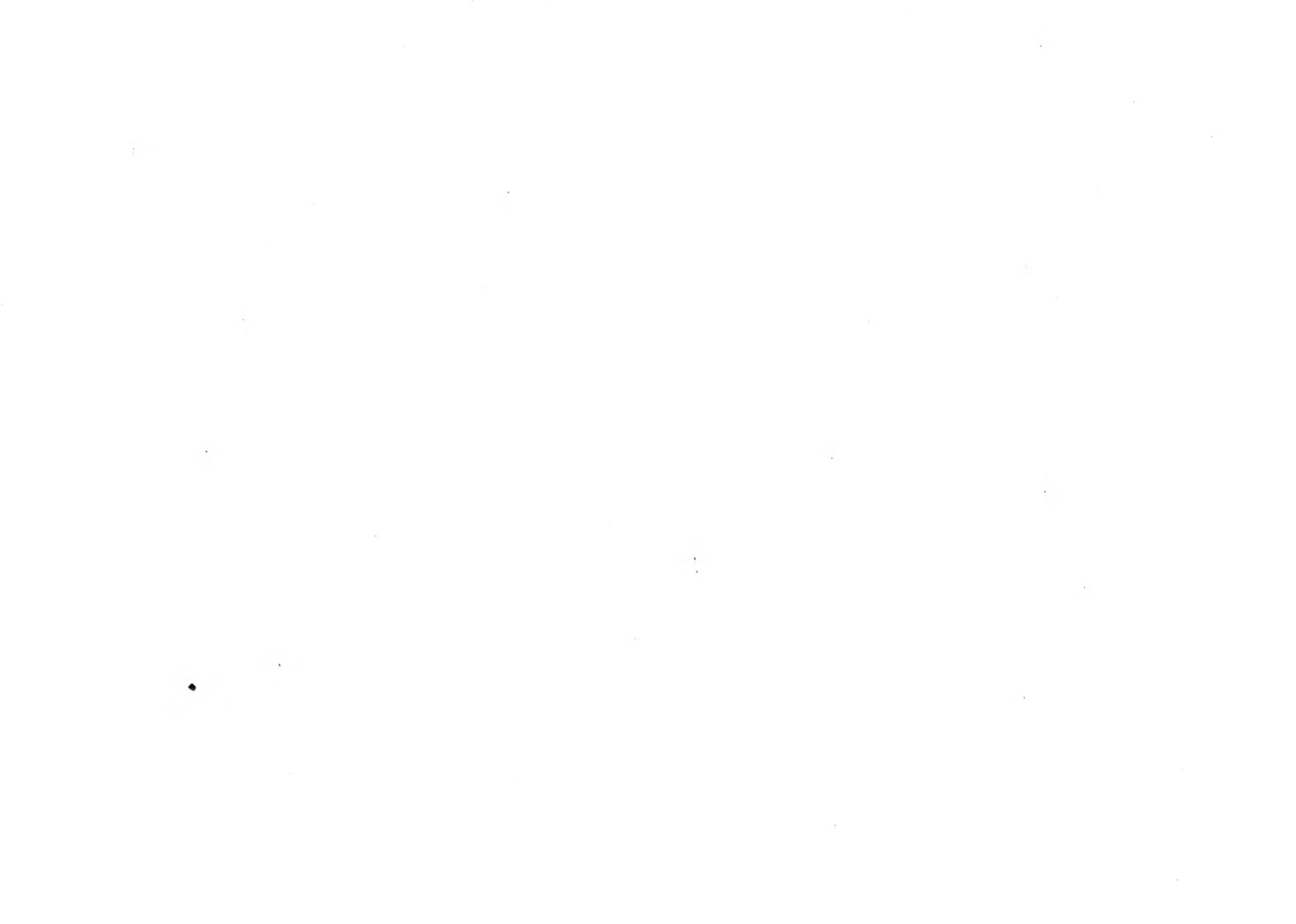
A B C D E F G H I J K L M
N O P Q R S T U V W X Y
Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z ð æ ñ ñ , .

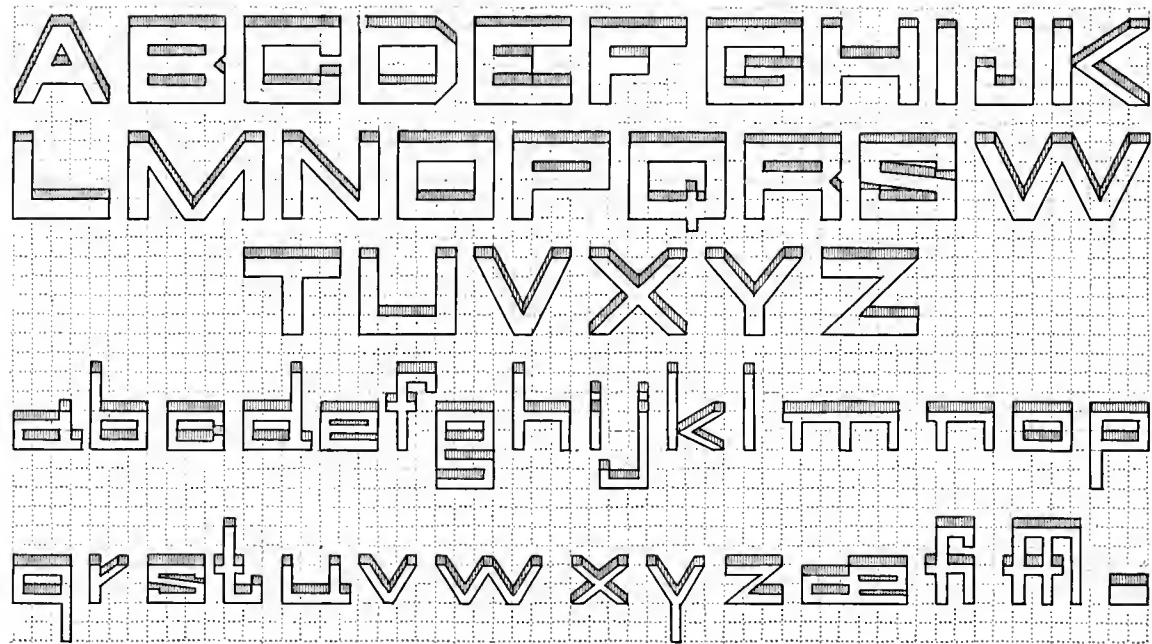
A B C D E F G H I J K L M
N O P Q R S T U V W X Y
Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z æ œ ð ñ , .

A B C D E F G H I J K L M
N O P Q R S T U V W X Y
Z

a b c d e f g h i j k l m n o p q
r s t u v w x y z æ œ ð ñ , ; .

A B C D E F G H I J K L M
N O P Q R S T U V W X Y
Z
a b c d e f g h i j k l m n o p q
r s t u v w x y z æ œ ð ñ ò.





A B C D E F G H I J K L

M N O P Q R S T U V W

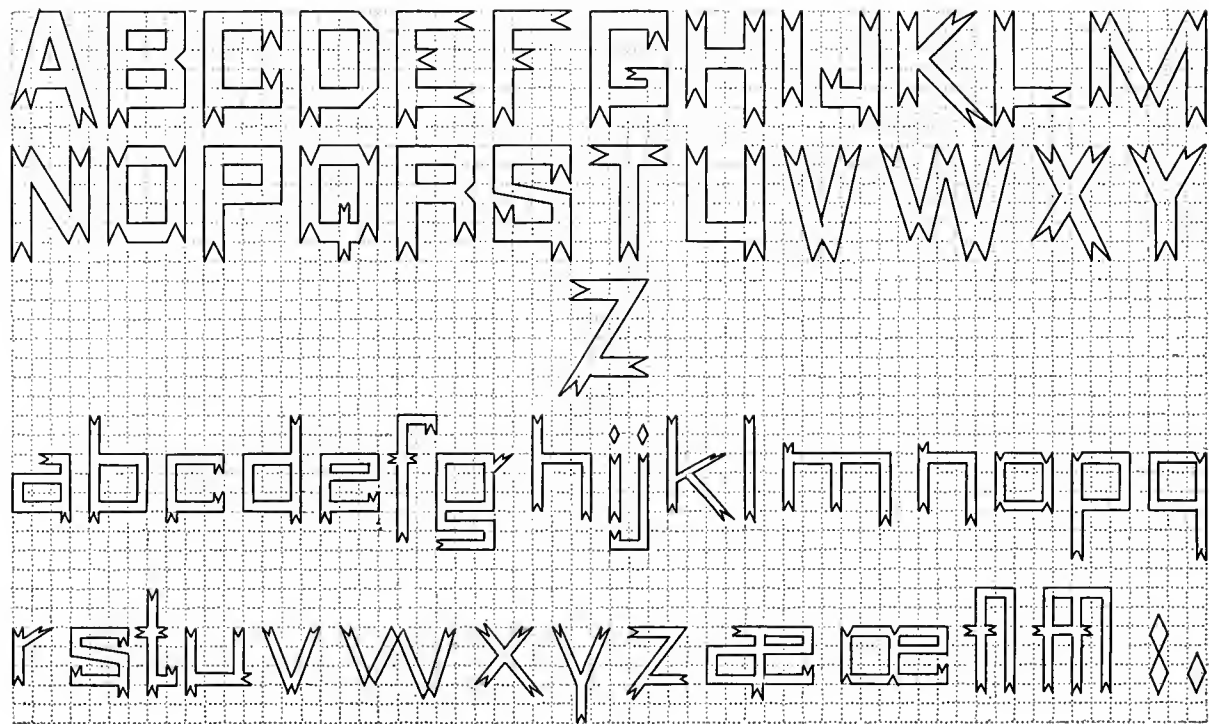
X Y

a b c d e f g h i j k l m n o p

q r s t u v w x y z o e i f .



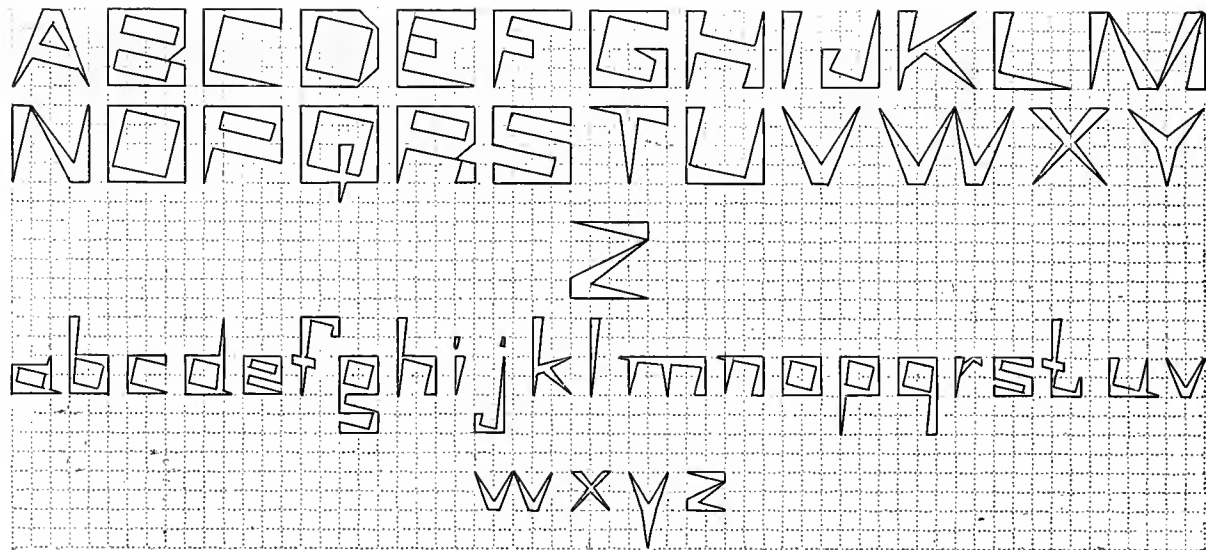




A B C D E F G H I J K
L M N O P Q R S T W
U V X Y Z
a b c d e f g h i j k l m n o
p q r s t u v w x y z f i l æ .

A B C D E F G H I J K L M
N O P Q R S T U V W X Y
Z

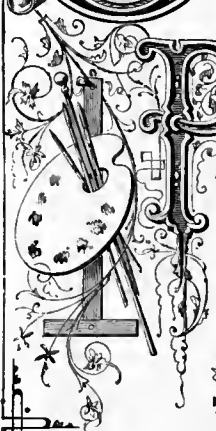
a b c d e f g h i j k l m n o p q r s t u v
w x y z



the **ORNAMENTAL PENMAN'S**
ENGRAVERS · SIGN WRITERS ·
... **STONE CUTTERS** ...
POCKET BOOK OF ALPHABETS

INCLUDING
CHURCH TEXT, EGYPTIAN, EGYPTIAN PERSPECTIVE,
FRENCH, FRENCH ANTIQUE, FRENCH RENAISSANCE, GERMAN TEXT,
ITALIC, ITALIAN SHADED, ITALIAN HAIRLINE,
Monograms, Old English, Old Roman, Open Roman, Open Stone, Ornamental,
ROMAN, LATIN, RUSTIC, TUSCAN, &c.

SPON & CHAMBERLAIN, *Publishers*, 12 CORTLANDT STREET, NEW YORK.



THE BEST AND CHEAPEST IN THE MARKET.

ALGEBRA SELF-TAUGHT.

BY

W. PAGET HIGGS, M.A., D.Sc.

FOURTH EDITION.

CONTENTS.

Symbols and the signs of operation. The equation and the unknown quantity. Positive and negative quantities. Multiplication, involution, exponents, negative exponents, roots, and the use of exponents as logarithms. Logarithms. Tables of logarithms and proportional parts. Transportation of systems of logarithms. Common uses of common logarithms. Compound multiplication and the binomial theorem. Division, fractions and ratio. Rules for division. Rules for fractions. Continued proportion, the series and the summation of the series. Examples. Geometrical means. Limit of series. Equations. Appendix. Index. 104 pages, 12mo, cloth, 60c.

See also Algebraic Signs, Spons' Dictionary of Engineering No. 2. 40 cts.

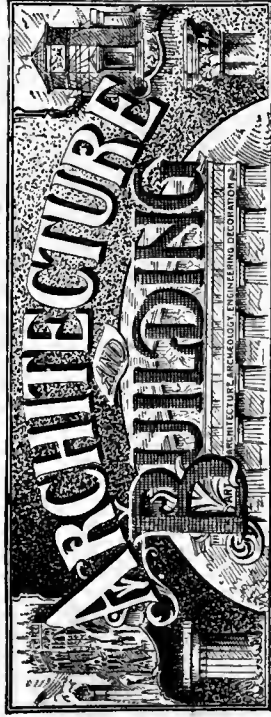
See also Calculus, Supplement to Spons' Dictionary No. 5. 75 cts.

Barlow's Tables of squares, cubes, square roots, cube roots, reciprocals of all numbers up to 10,000. A thoroughly reliable work of 200 pages, 12mo, cloth, \$2.50.

Logarithms.—Tables of logarithms of the natural numbers from 1 to 108,000 with constants. By CHARLES BABBAGE, M.A. 220 pages, 8vo, cloth, \$3.00.

Logarithms.—A. B. C. Five figure logarithms for general use. By C. J. WOODWARD, B.Sc. 143 pages, complete thumb index 12mo, limp leather, \$1.60.

Books mailed post-paid to any address on receipt of price



NEW YORK AND CHICAGO.

DEVOTED TO

**Art, Architecture, Archaeology,
Engineering and Decoration.**

PUBLISHED ONCE A WEEK.

Subscription, \$4.00 per year. Foreign Subscription, \$6.00.
Sample Copy Free.

WHAT SUBSCRIBERS SAY.

Adler & Sullivan, Architects, Chicago, Ill.—"We have been subscribers to **ARCHITECTURE AND BUILDING** for many years, and have always found its contents interesting and instructive."

Henry Ives Cobb, Architect, Chicago, Ill.—"I have been a subscriber to your magazine for a number of years, and have found it a useful and progressive periodical. I take pleasure in recommending it is a valuable acquisition to any collection of architectural periodicals or library."

D. H. Burnham, Chief of Construction, World's Columbian Exposition, Chicago, Ill.—"I am a subscriber to **ARCHITECTURE AND BUILDING**, a weekly magazine published in New York and Chicago, and find it valuable in many ways. I can recommend it heartily to those needing such a periodical."

Holabird & Roche, Architect, Chicago, Ill.—"In reply to your inquiry as to our opinion of your paper, **ARCHITECTURE AND BUILDING**, would say that we have taken the magazine for the last three years and are entirely satisfied with it."

Francis J. Norton, Architect, Chicago, Ill.—"Being a thorough reader of all the leading architectural papers, I feel justified in saying that I consider **ARCHITECTURE AND BUILDING** the most modern and practical architectural paper published."

Frank Niernsee, Architect of the State House, Columbia, S. C.—"I take several architectural publications, and I find your journal second to none - always keeping fully abreast of the times. You have a wide circulation in the South."

WILLIAM T. COMSTOCK, Publisher,

23 Warren Street, New York.

Monadnock Building, 835 Dearborn Street, Chicago.

CROSS SECTION PAPER.

Scale EIGHT to ONE Inch.

Printed on one side, in blue ink, all the lines being of equal thickness. Size of sheet, 8 x 10 inches. In lots of 100 sheets, price, 75c.

THE HANDY SKETCHING PAD.

Made from this paper, with useful tables. Size 8 x 10 inches. Price, 25c. each. Per dozen pads, \$2.50.

THE HANDY SKETCHING BOOK.

Made from this paper but printed on both sides. Size of book 5 x 8 inches, stiff board covers. Price, 25c each; per dozen books, \$2.50.

Or Books and Pads Assorted, per dozen, \$2.50.

Scale EIGHT to ONE Inch.

A large sheet with heavy inch lines and half inch lines, printed in orange ink. Size of sheet, 17 x 22 inches. Per quire (24 sheets), 75c.

Scale TEN to ONE Inch.

Size 17 x 22 inches, printed in blue ink, with heavy inch lines and half inch lines. Per quire (24 sheets), 75c.

The Electrician's Sketching Book.

Made from this paper. Scale 10 to 1 inch. Size of book 5 x 8 inches, with stiff board covers. Price, 25c. each; per dozen, \$2.50.

ANY QUANTITY MAILED TO ANY PART OF THE WORLD
ON RECEIPT OF PRICE.

Pads of any size and thickness, in quantities, made to order.

This paper is not ruled. Try it and you will find it

GOOD, ACCURATE AND CHEAP.

SPON & CHAMBERLAIN,

12 CORTLANDT STREET,

NEW YORK.

TRY THIS PAPER FOR EASY LETTERING.

THIRD THOUSAND.

New Edition (Oblong 8x11 inches), boards 32 pages text, 44 illustrations, and 9 full-page plates, Price \$1.00

LETTERING FOR DRAFTSMEN

ENGINEERS AND STUDENTS.

A Practical System of Freehand Lettering for Working Drawings

BY

CHARLES W. REINHARDT,
Chief Draftsman for "Engineering News."

What this work actually intends to show is a "Practical System of Freehand Lettering for Working Drawings"—one that by the method outlined, is easily acquired and rapidly executed. The mode of procedure given for every letter can easily be followed and always be remembered, and, by avoiding the common errors, as pointed out in parenthesis alongside each correctly formed letter, the student will very soon be able to form satisfactory letters for himself.—*Preface,*

TESTIMONIALS.

"It is the first book on Lettering I have ever seen that is good for anything, practically speaking. I shall advocate its adoption in this college at the earliest opportunity."—*Prof. Walter Flint, Miami State College.*

"It comes nearer to may ideal of a satisfactory treatment of this subject than anything I have ever seen."—*Professor E. H. Lockwood, Yale University.*

"My opinion of it is good, generally, and that it fills a long felt want. It teaches what I have been trying to teach for some time—commercial work."—*Prof. W. B. Hampson, University of Nebraska.*

"It is just what my knowledge of the author's work on *Engineering News* would lead me to expect—a practical system. I shall use the book hereafter in my classes."—*Prof. Leonard S. Smith, University of Wisconsin.*

"This book is to the point, and supplies just what is wanted to the profession. It is neat, concise, and a book that should be in the hands of every student."—*Prof. C. W. Marx, Missouri State University.*

"In my opinion it fills a long felt want of every practical draftsman, besides finding an especial field of usefulness in school work."—*Prof. Granberry Jackson, Vanderbilt University.*

"I have examined his work and am surprised at the results of a trial. I find that a beginner can make respectable letters with a copy of this valuable book before him. I heartily recommend it for use in Technical schools as being ahead of anything I have ever seen."—*Prof. R. D. Hawkins, Tulane University.*

D. VAN NOSTRAND COMPANY, Publishers,

23 Murray and 27 Warren Streets,

Copies sent by mail on receipt of price. NEW YORK.

PRACTICAL HANDBOOKS.

Engine Cylinder Diagram.

With (Meyer) cut-off at $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ stroke of piston, with movable valves. By H. W. Weightman. On card, 25 cts.

How to Run Engines and Boilers.

A Handbook of Practical Instruction for Young Engineers and those in charge of Steam Engines. By E. P. Watson. Illustrated, cloth, 1.00

The Fireman's Guide.

A Handbook on the Management of Boilers. Written in plain language for Young Firemen and those in charge of boilers. By K. P. Dahlstrom, M. E. Cloth, 50 cts.

The Corliss Engine and Its Management.

The best and most practical book on the Corliss Engine. By John T. Henthorn and C. D. Thurber. Plainly written, thoroughly practical, and fully illustrated. Cloth, 1.00

Ammonia Refrigeration.

Theoretical and Practical Ammonia Refrigeration. By I. I. Redwood, M. Am. Inst. M. E. A practical handbook for the use of those in charge of Refrigerating Machinery and Ice Plants. Fully illustrated and about 24 pages of valuable tables. 12mo, cloth, 1.00

Manual of Instruction in Hard Soldering.

New edition, with an appendix on the Repair of Bicycle Frames, Soldering Alloys, Fluxes, and a chapter on Soft Soldering. By Harvey Rowell. Illustrated, cloth, 75 cts.

Practical Electrics.

A Handbook on the Construction. Fitting-up and Use of Telephones, Bells, Receivers, Batteries, Alarms, Annunciators, Dynamos, Motors, Carbons, Microphones, Phonographs, Photophones, Coils, and all kinds of electrical appliances. Fully illustrated cloth, 75 cts.

The Magneto Telephone.

Its Construction, Fitting-up and Adaptability to Every-day Use. By Norman Hughes. Specially written in plain language for the use of beginners. Illustrated, cloth, 1.00

Syrups, Extracts, Flavorings, Phosphates, &c.

The Non Plus Ultra Soda Fountain Requisites. By G. Dubelle. A Handbook of Practical Receipts. Nearly 500 recipes. Cloth, 25⁰

Algebra Self Taught.

The Best and Cheapest Algebra in the Market. By W. P. Higgs. Cloth, 60 cts.

A System of Easy Lettering.

By J. H. Cromwell. Containing 25 pages of alphabets. Well printed on good paper, oblong. Paper, 50 cts.

PRACTICAL PAMPHLETS.

Hints to Young Engineers Upon Entering Their Profession. By Joseph W. Wilson. 8vo, paper, 20 cts.

Designing Belt Gearing. By E. J. Cowling Welch. 16mo, paper, 20 cts.

Tables of the Principal Speeds Occurring in Mechanical Engineering expressed in metres, in a second. By P. Keerayeff. Translated by Sergius Kern, M.E. 16mo, paper, 20 cts.

The French Polishers' Manual. By a French polisher. 16mo, paper, 20 cts.

Cleaning and Scouring. A Manual for Dyers and Launderesses, and for Domestic Use. By S. Christopher. 16mo, paper, 20 cts.

The Cooking Range. Why is it my cooking range does not work properly, and why so extravagant with fuel? By F. Dye. 16mo, paper, 20 cts.

The Gas Consumers' Handybook. By William Richards, C.E. 16mo, paper, 20 cts.

Turner and Fitters' Pocket Book. For calculating the change wheels for screws on a turning lathe and for a wheel cutting machine. By J. La Nicca. 16mo, paper, 20 cts.

Screw-Cutting Tables, for the use of Mechanical Engineers, showing the proper arrangement of wheels for cutting the threads of screws of any required pitch, with a table for making the Universal Gas Pipe Threads and Taps. By W. A. Martin. Paper, 20 cts.

Ornamental Penmanship. A Pocketbook of Alphabets for Engravers, Sign Writers and Stone Cutters, containing 32 pages of alphabets. Paper, 20 cts.

The Handy Sketching Book, for the use of Draftsmen and Engineers, containing cross-section paper to EXACT eighth of an inch, with useful tables. Bound in boards, per dozen, \$2.50. Each, 25cts.

The Kitchen Boiler and Water Pipes: Their arrangement and management—more especially their treatment during frost and how to avoid explosions. By H. Grimshaw. Second edition, illustrated, 8vo, paper, 40 cts.

Pocket-books for Reference.

Molesworth and Hurst.—The pocket-book of pocket-books. Being Hurst's and Molesworth's pocket-book bound together in full Russia leather, 32mo., round corners, gilt edges, \$5.00.

Cutler and Edge.—Tables for setting out curves from 100 feet to 5,000 feet radius. Useful for setting out roads, sewers, walls, fences and general engineering work, 16mo., cloth, \$1.00.

Maycock.—Practical electrical notes and definitions, for the use of engineering students and practical men, 286 pages, illustrated, 32mo., cloth, 75c.*

Thompson's Electrical Tables.—A valuable little reference book for engineers, electricians, motor inspectors and others interested in electrical engineering. Illustrated, vest pocket edition, 64mo., roan, 50c.

Dearlove.—Tables to find the working speed of cables; comprising also data as to diameter, capacity and copper resistance of all cores. 32mo., cloth, 80c.

Molesworth.—Metrical tables, weights and measures. 57 pages, 32mo., cloth, 60c.

Brooks.—French measures and english equivalents. 32mo., 40c.

Molesworth.—Pocket-book of useful formulæ and memoranda for civil and mechanical engineers. 781 pages, illustrated, 32mo, leather, \$2.00.*

George.—Pocket-book of calculation in stresses, etc., for engineers, architects and general use. 140 pages, illustrated, 32mo., cloth, \$1.40.

Sexton.—Pocket-book for boiler makers and steam users, board of trade surveyors, and the general steam-using public. 287 pages, illustrated, 32mo., leather, \$2.00.

Hurst.—A hand-book of formulæ, tables and memoranda for architectural surveyors. 477 pages, illustrated, 32mo., leather, \$2.00.

Jordan.—Tabulated weights of angle, tee and bulb iron and steel and other information for the use of naval architects, shipbuilders and manufacturers. 579 pages, 32mo., leather, 1896, \$3.00.

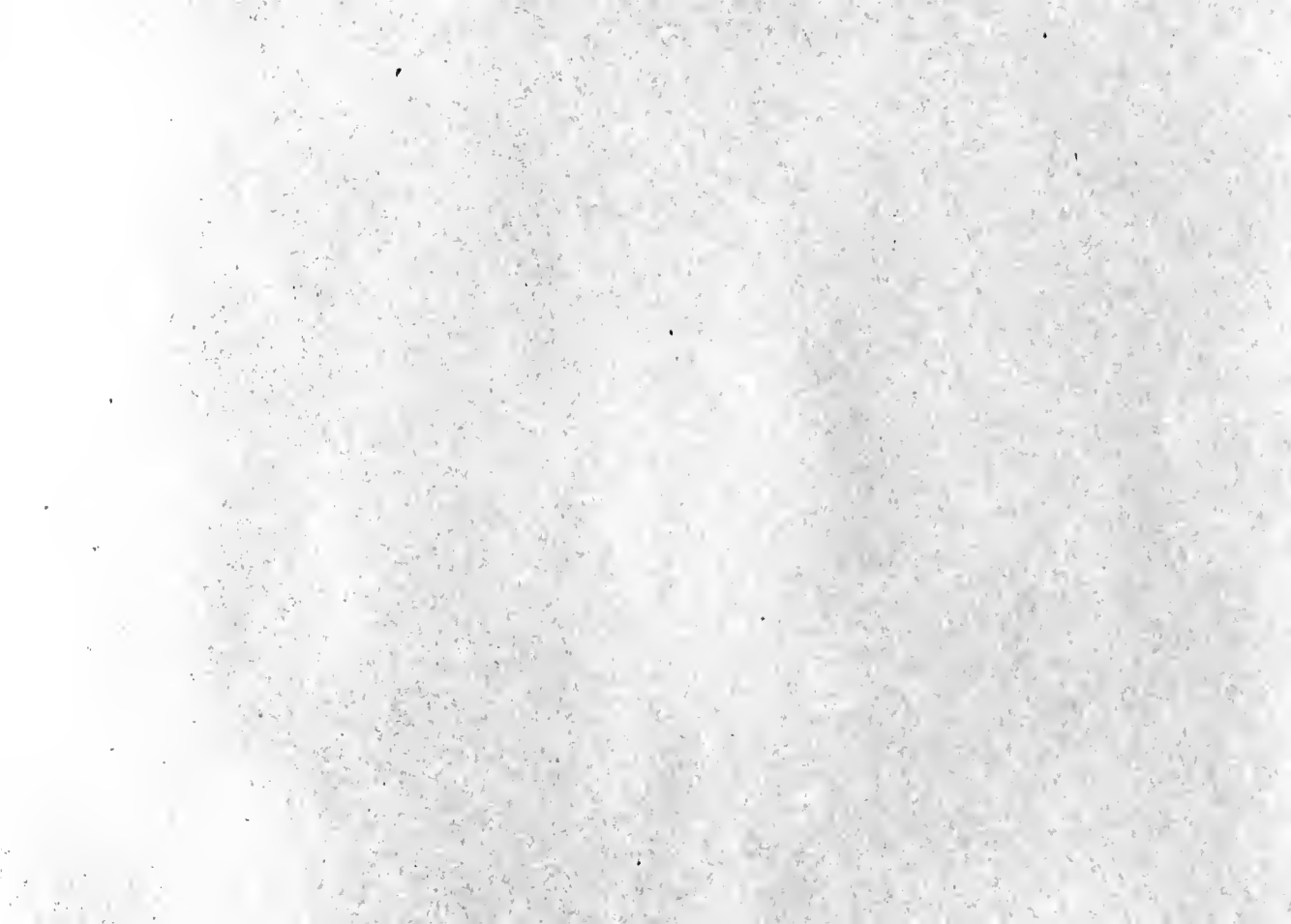
Spons'—Tables and memoranda for engineers, by Hurst. The vest pocket edition, 64mo., roan, 50c.

Mackesy.—Tables of barometrical heights to 20,000 feet, specially adapted for the use of officers on service, civil engineers and travellers. With 3 diagrams, 32mo., cloth, \$1.25.

Bayley.—Pocket-book for chemists, chemical manufacturers, metallurgists, dyers, distillers, brewers, sugar refiners, photographers, students, etc., etc. 32mo., roan, \$2.00.

In the press.

Books mailed post paid to any address in the world on receipt of price.



UNIVERSITY OF CALIFORNIA LIBRARY
BERKELEY

Return to desk from which borrowed.

This book is DUE on the last date stamped below.

23 Nov '40 W
Oct 13 '50 IB
18 Mar 51 KW

REC'D LD
MAR 15 1961

30 Oct '58 CS

29 NOV '62 RR

REC'D LD

REC'D LD

OCT 10 1958

NOV 15 1962

19 Sep '60 MM

REC'D LD

SEP 16 1960

25 Mar '61 BM

YC 19740

303923

T 371

C7

